

Appl. No. 09/932,003

In the Claims

Claims 24-60 were previously cancelled.

Claim 1 (currently amended): A method of forming a capacitor construction, comprising:

providing a first capacitor electrode;

forming a perovskite-type dielectric material over the first capacitor electrode, the perovskite-type dielectric material having a first edge region proximate the first electrode and a portion further from the first electrode than the first edge region, the perovskite-type dielectric material having a common chemical composition within the first edge region and said portion, said portion having a different amount of crystallinity than the first edge region; and

while the first edge region and the portion differ in the amount of crystallinity relative to one another, forming a second capacitor electrode over the perovskite-type dielectric material.

Claim 2 (original): The method of claim 1 wherein the first edge region has less crystallinity than said portion.

Claim 3 (original): The method of claim 1 wherein the first edge region is substantially amorphous and wherein said portion is substantially crystalline.

Appl. No. 09/932,003

Claim 4 (currently amended): The method of claim 1 wherein the perovskite-type material comprises a second edge region proximate the second capacitor electrode, wherein the portion is between the first and second edge regions, wherein the second edge region has the common chemical composition, and wherein the second edge region has an amount of crystallinity that is about the same as the first edge region.

Claims 5 and 6 (cancelled).

5.

Claim ~~7~~ (currently amended): The method of claim 1 wherein the ~~perovskite-type material~~ common chemical composition comprises barium, strontium, titanium and oxygen ~~throughout both said portion and the edge region.~~

6.

Claim ~~8~~ (currently amended): The method of claim 1 wherein the ~~perovskite-type material~~ common chemical composition consists essentially of barium, strontium, titanium and oxygen ~~throughout both said portion and the edge region.~~

7.

Claim ~~9~~ (currently amended): The method of claim 1 wherein the ~~perovskite-type material~~ common chemical composition consists of barium, strontium, titanium and oxygen throughout both said portion and the edge region.

8.

Claim ~~10~~ (currently amended): The method of claim 1 wherein the ~~perovskite-type material~~ common chemical composition comprises titanium and oxygen.

Appl. No. 09/932,003

9.

Claim ~~11~~ (currently amended): The method of claim 1 wherein the ~~perovskite-type~~ material common chemical composition comprises titanium and oxygen, together with one or more of barium, strontium, lead and zirconium.

10.

Claim ~~12~~ (currently amended): The method of claim 1 wherein the ~~perovskite-type~~ material common chemical composition comprises one or more of barium strontium titanate, barium titanate, lead zirconium titanate, and lanthanum doped lead zirconium titanate.

11.

Claim ~~13~~ (original): The method of claim 1 wherein the edge region and said portion are together formed by an uninterrupted chemical vapor deposition process.

12.

Claim ~~14~~ (original): The method of claim 1 wherein the first capacitor electrode comprises platinum.

13.

Claim ~~15~~ (original): The method of claim 1 wherein the first and second capacitor electrodes comprise platinum.

Appl. No. 09/932,003

14.

Claim ~~16~~ (currently amended): A method of forming a capacitor construction, comprising:

providing a first capacitor electrode;

forming a perovskite-type dielectric material over the first capacitor electrode;

forming a second capacitor electrode over the perovskite-type dielectric material; and

cont'd
D1
~~wherein,~~ wherein the perovskite-type dielectric material comprises a first substantially amorphous region physically against the first electrode, a second substantially amorphous region physically against the second electrode, and a substantially crystalline region between the first and second substantially amorphous regions; and wherein the perovskite-type dielectric material comprises a common chemical composition throughout the substantially crystalline region and throughout the first and second substantially amorphous regions.

Claims 17 and 18 (cancelled).

15.

Claim ~~19~~ (currently amended) The method of claim ~~16~~ wherein the ~~perovskite-type material~~ common chemical composition comprises barium, strontium, titanium and oxygen ~~throughout the first, second and third regions.~~

14

16.

Claim ~~20~~ (currently amended): The method of claim ~~16~~ wherein the ~~perovskite-type material~~ common chemical composition consists essentially of barium, strontium, titanium and oxygen ~~throughout the first, second and third regions.~~

14

Appl. No. 09/932,003

17.

14

Claim ~~21~~ (currently amended) The method of claim ~~16~~ wherein the ~~perovskite-type~~ material common chemical composition comprises titanium and oxygen, together with one or more of barium, strontium, lead and zirconium.

18.

14

Cancelled
D1
Claim ~~22~~ (currently amended): The method of claim ~~16~~ wherein the ~~perovskite-type~~ material common chemical composition comprises one or more of barium strontium titanate, barium titanate, lead zirconium titanate, and lanthanum doped lead zirconium titanate.

19.

14

Claim ~~23~~ (original): The method of claim ~~16~~ wherein the first, second and third regions are together formed by an uninterrupted chemical vapor deposition process.

Claims 24-60 (cancelled).

D